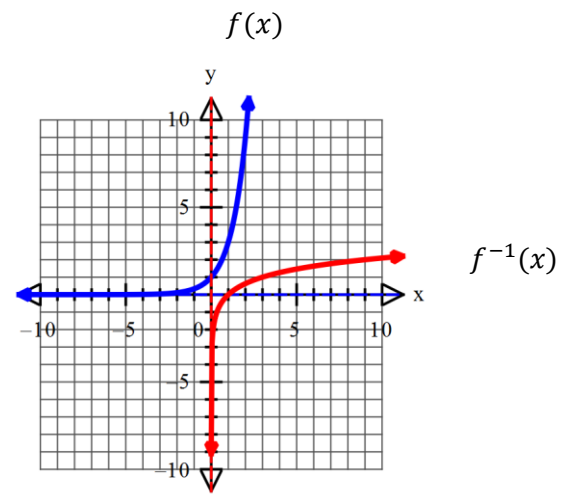


SM3H--odd answers to 5.6b

1.

x	$f(x)$	x	$f^{-1}(x)$
-2	$\frac{1}{9}$	$\frac{1}{9}$	-2
-1	$\frac{1}{3}$	$\frac{1}{3}$	-1
0	1	1	0
1	3	3	1
2	9	9	2



3. $f^{-1}(x) = 4 + 10^{x-2}$

5. $f^{-1}(x) = 10^{x-2}$

7. $f^{-1}(x) = -2 + \log_2(x - 1)$

9. $f^{-1}(x) = \frac{10^{x+1}}{2}$

11. $f^{-1}(x) = e^x - 1$

13. $f^{-1}(x) = -\frac{1}{e^x}$ or $-e^{-x}$

15. $f^{-1}(x) = \frac{1}{2} - \frac{\log_3\left(\frac{x-5}{2}\right)}{2}$

17. $x \approx 1.0986$

19. $x \approx 1.7918, 0$

21. $x \approx 0.4307$

23. $x \approx 0.6131$

25. a) Domain: $(-4, \infty)$

c) Range: $(-\infty, \infty)$, VA: $x = -4$

d) $f^{-1}(x) = e^x - 4$

e) Domain: $(-\infty, \infty)$,

Range: $(-4, \infty)$

